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REFERENCE TO:	DEVELOPMENT OF A LARGE NEW TWIN-ROTOR HELI- COPTER, MOSCOW, USSR
1. SIGNIFICANCE:	A LARGE NEW TWIN-ROTOR HELICOPTER IS UNDER
	DEVELOPMENT IN THE MOSCOW AREA. TWO SUCH
	HELICOPTERS HAVE BEEN OBSERVED AT DIFFERENT
	LOCATIONS, ONE AT A HELICOPTER DESIGN
	BUREAU/EXPERIMENTAL PLANT IN THE MOSCOW
	SUBURB OF TOMILINO AND THE OTHER AT A
	SPECIALLY CONSTRUCTED TEST SITE NEAR MOSCOW/
	BYKOVO AIRFIELD. WHEN COMPLETED THIS NEW
	HELICOPTER WILL BE AT LEAST TWICE AS LARGE
	AS THE HOOK OR HARKE.
2. LOCATION:	TOMILINO: 12 NM SE FROM THE CENTER OF MOSCOW.
	MOSCOW/BYKOVO AIRFIELD: 17 NM SE FROM THE
	CENTER OF MOSCOW.
3. REMARKS:	A LARGE NEW TWIN-ROTOR HELICOPTER WAS FIRST
	IDENTIFIED
	ANALYSIS ON
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IT WAS LOCATED

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2 NAUTICAL MILES NORTH OF THE MOSCOW/BYKOVO
AIRFIELD AT A SPECIALLY CONSTRUCTED TEST
SITE (53-38-50N 038-04-50E). A PRELIMINARY
FIRST ANALYSIS OF THIS TEST SITE BY NPIC
IDENTIFIED IT AS A LARGE PROBABLE HELICOPTER
ROTOR TEST STAND. THIS ANALYSIS HAS NOW
BEEN CHANGED AFTER A MORE DETAILED STUDY OF

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OF AN IDENTICAL LARGE NEW TWIN-ROTOR HELICOPTER AT A HELICOPTER DESIGN BUREAU/EXPERIMENTAL PLANT NEAR TOMILINO, A MOSCOW SUBURB.
THE HELICOPTER DESIGN BUREAU/EXPERIMENTAL
PLANT IS SITUATED APPROXIMATELY 4.5 NAUTICAL
MILES NORTHWEST OF THE TEST SITE, WITHIN THE
CONFINES OF THE TOMILINO AEROSPACE RESEARCH
AND DEVELOPMENT CENTER (55-39-58N 037-56-05E).
THE HELICOPTER DESIGN BUREAU/EXPERIMENTAL
PLANT IS KNOWN TO BE ASSOCIATED WITH THE
SOVIET HELICOPTER DESIGNER, M.L. MIL.

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4. COLLATERAL:

THERE HAVE BEEN MANY REPORTS DURING THE PAST
YEAR RELATIVE TO THE SOVIET DEVELOPMENT OF A
HELICOPTER LARGER THAN THE HOOK OR HARKE;
HOWEVER, NONE OF THESE REPORTS HAVE BEEN
CONFIRMED. CONTINUED SOVIET STATEMENTS
CONCERNING PLANS AND REQUIREMENTS POINT TO
THE DEVELOPMENT OF SUCH HELICOPTERS.

SOVIET SOURCES AT THE 1967 PARIS AIR SHOW

STATED THAT MIL IS WORKING ON A NEW HELICOPTER

THAT WILL BE LARGER THAN THE HOOK OR HARKE.

A LARGE HELICOPTER WAS REPORTEDLY GOING TO BE

DISPLAYED AS A LATE SURPRISE ENTRY AT THE AIR

SHOW BUT NEVER APPEARED.

VISITED THE MIL
DESIGN BUREAU/EXPERIMENTAL PLANT ON
REPORTED SIGHTING A POSSIBLE
NEW HELICOPTER. THE DELEGATION WAS SHOWN
THROUGH THE MACHINE SHOP, BUT NOT THROUGH THE
MAIN ASSEMBLY HANGAR. THE BUILDING WAS

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	SCREENED OFF UP TO TWO-THIRDS OF ITS HEIGHT	
	WHICH WAS APPROXIMATELY 85 FEET. ABOVE THIS	
	SCREEN TWO LARGE ARC STRUCTURES IN JIGS	
	COULD BE SEEN.	
	AN ARTICLE IN AVIATION WEEK AND SPACE	
	TECHNOLOGY DATED 5 FEBRUARY 1968 INDICATES	
	THAT ANOTHER SOVIET HELICOPTER DESIGNER,	
	N.I. KAMOV, MAY ALSO BE DEVELOPING A LARGE	
	NEW HELICOPTER. THE ARTICLE FURTHER STATES	
	THAT THE GROSS WEIGHT OF THIS HELICOPTER IS	
	BETWEEN 100 AND 150 TONS AND THAT IT USES A	
	CONTRA-ROTATING ROTOR SYSTEM.	
5. FIRST IDENTIFICATION:	TEST SITE:	
	HELICOPTER DESIGN BUREAU/EXPERIMENTAL PLANT:	
		2
6. NEGATION DATE:	TEST SITE:	2
	HELICOPTER DESIGN BUREAU/EXPERIMENTAL PLANT:	
		2
7. SUBSEQUENT COVERAGE:	4 KH-4 AND 1 KH-7 MISSIONS.	

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8. <u>DIMENSIONS/</u> <u>SPECIFICATIONS:</u>	NEW TWIN-ROTOR HELICOPTER BEING ASSEMBLED AT
	TEST SITE:
	FUSELAGE LENGTH
	FUSELAGE DIAMETER
	ROTOR : FIVE BLADED
	RADIUS OF ROTOR :
	DISTANCE BETWEEN ROTOR HUB CENTERS : 105 FT (APPROX)
	HEIGHT OF ROTORS FROM CONCRETE PAD :
	CENTER FUSELAGE HEIGHT: 25 FT (APPROX)
	ENGINE HOUSING :
	CONSTRUCTION STATUS : INCOMPLETE
	NEW IWIN ROTOR HELICOPTER LOCATED AT A
	HELICOPTER DESIGN BUREAU/EXPERIMENTAL PLANT,
	TOMILINO:
	FUSELAGE LENGTH : 125 FT (APPROX) (BASED ON KH-4

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9.	MISSION READOUT: A PHOTOGRAPHIC ANALYSIS OF THE LARGE NEW	
	TWIN-ROTOR HELICOPTER AND THE SPECIALLY CONSTRUCTED TEST SITE IS AS	
	FOLLOWS: THE TEST SITE, WHICH COVERS AN AREA OF APPROXIMATELY 200	
	ACRES, WAS FIRST OBSERVED UNDER CONSTRUCTION IN	
	AND IS STILL IN AN EARLY STAGE OF CONSTRUCTION. THE LARGE HELICOPTER	
•	WAS FIRST SEEN AT THE TEST SITE IN	
	PHOTOGRAPHY OF GOOD INTERPRETABILITY IN REVEALS	
	THAT THE HELICOPTER WAS BEING ASSEMBLED ON A PROBABLE CONCRETE PAD,	
	APPROXIMATELY 250 BY 200 FEET, LOCATED NEAR THE CENTER OF THE TEST SITE.	
	ASSEMBLY OF THE HELICOPTER HAD NOT BEEN COMPLETED. IN MAY 1967 IT	
	CONSISTED OF A FUSELAGE APPROXIMATELY	
	DIAMETER. TWIN BOOMS, CENTRALLY LOCATED, EXTEND FROM OPPOSITE SIDES	
	OF THE FUSELAGE. A PROBABLE ENGINE HOUSING AND A FIVE-BLADED ROTOR WERE	
	MOUNTED ON ONE BOOM, AND A PROBABLE ENGINE HOUSING HAD BEEN MOUNTED ON	
	THE OTHER BOOM. A MOBILE CRANE WAS IN POSITION NEAR THE SECOND BOOM,	
	PROBABLY FOR THE PURPOSE OF MOUNTING A SECOND FIVE BLADED-ROTOR. THE	
	RADIUS OF THE FIVE-BLADED ROTOR ALREADY MOUNTED IS APPROXIMATELY	
	INDICATING THAT IT MAY BE THE SAME TYPE OF ROTOR UTILIZED BY THE HOOK	
	OR HARKE. THE DISTANCE BETWEEN ROTOR HUB CENTERS IS APPROXIMATELY 105	
	FEET. THE HEIGHT OF EACH ROTOR HUB FROM THE PROBABLE CONCRETE PAD IS	
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	THE HEIGHT OF TH	E CENTER OF TH	E FUSELAGE IS
APPROXIMATELY 25 FEET.	THE PROBABLE ENG	INE HOUSINGS A	RE APPROXIMATELY
		THE INT	ERPRETABILITY OF
PHOTOGRAPHY COVERING TH	E NEW HELICOPTER :	HAS VARIED FRO	M POOR TO FAIR,
MAKING IT DIFFICULT TO	DETERMINE ITS ASS	EMBLY STATUS.	THE MOST RECENT
OBSERVATION WAS ON PHOT	OGRAPHY OF POOR I	NTERPRETABILIT	Y
A LARGE TWIN-ROTOF	HELICOPTER, ALMOS	ST IDENTICAL T	O THE ONE AT THE
TEST SITE, WAS LOCATED	AT THE DESIGN BUR	EAU/EXPERIMENT	AL PLANT ON
	THE DES:	IGN BUREAU/EXP	ERIMENTAL PLANT
WAS VISIBLE	PI	HOTOGRAPHY, BU	T THE NEW
HELICOPTER WAS NOT OBSE	RVED; HOWEVER, A I	LARGE UNIDENTI	FIED PROBABLE
FUSELAGE APPROXIMATELY	130 FEET LONG		VAS OBSERVE
ADJACENT TO A LARGE ASS	EMBLY BUILDING. I	LATER COVERAGE	
		REVEAL	ED THAT THE
UNIDENTIFIED FUSELAGE W	AS STILL IN THE SA	AME LOCATION.	THE LARGE NEW
	ERVED ON BOTH OF	THESE MISSIONS	•
HELICOPTER WAS ALSO OBS		ERIMENTAL PLAN	T APPEARS TO BE
HELICOPTER WAS ALSO OBS	COPTER AT THE EXPI		
		ITE. THE FUSE	LAGE IS APPROXI-
THE LARGE NEW HELI	ONE AT THE TEST SI		

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STABILIZERS.	THIS HELICOPTER WAS	NOT OBSERVED A	T THE PLANT
	HOWEVER, THE	PHOTOGRAPHY OB	TAINED FROM THIS MISS
REVEALED A LAF	RGE PROBABLE SHOP BUT	ILDING UNDER CO	NSTRUCTION AND THE
REMOVAL OF SNO	W FROM THE ENTRANCE	TO THE LARGE A	SSEMBLY BUILDING AND
	OW FROM THE ENTRANCE		SSEMBLY BUILDING AND
			SSEMBLY BUILDING AND

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TEST SITE

LARGE NEW
TWIN-ROTOR HELICOPTER

TEST SITE

LARGE NEW AND DEVELOPMENT CENTER

AND DEVELOPMENT CENTER

LARGE ASSEMBLY BLDG
TWIN-ROTOR HELICOPTER

RELICOPTER DESIGN
TOWNLING

TOWNLING
TEST SITE

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